CLAIMS

What is claimed is:

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- receiving a first identification (ID) at a computer system from a server via
- 3 a transmission medium;
- 4 comparing the first ID with a second ID stored at a first analog front end
- 5 coupled to the computer system; and
- 6 certifying a first software-defined radio for operation if the first ID
- 7 matches the second ID.

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- 1 2. The method of claim 1 further comprising disabling the first software-
- 2 defined radio if the first ID does not match the second ID.
- 1 3. The method of claim 1 further comprising storing the first ID in a memory
- 2 device within a baseband unit at the computer system prior to comparing the
- 3 first ID with the second ID.
- 1 4. The method of claim 1 further comprising downloading a protocol
- 2 corresponding with the first software-defined radio.
- 1 5. The method of claim 4 wherein the first ID and the wireless protocol are
- 2 received as a component of a signed manifest.
- 1 6. The method of claim 5 further comprising:
- validating the signed manifest; and
- 3 executing the protocol at a baseband unit if the manifest is validated.
- 1 7. The method of claim 1 further comprising:

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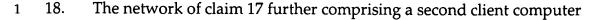
2		receiving a third identification (ID) at the computer system from the
3	server	via the transmission medium;
4		comparing the third ID with a fourth ID stored at a second analog front
5	end co	oupled to the computer system; and
6		certifying a second software-defined radio for operation if the third ID
7	match	es the fourth ID.
1	8.	A computer system comprising a first software-defined radio including:
2		a baseband unit; and
3		a first analog front-end coupled to the baseband unit;
4		the first software-defined radio being certified for operation by
5	auther	nticating a first identification (ID) received at the baseband unit with a
6	secono	d ID stored at the first analog front end.
1	9.	The computer system of claim 8 further comprising:
2		an input/output (I/O) bus coupled to the baseband unit; and
3		a network controller coupled to the I/O bus.
1	10.	The computer system of claim 9 wherein the first ID is received from a
2	server	computer via a transmission medium coupled to the network controller.
1	11.	The computer system of claim 10 wherein a protocol corresponding to the
2	first so	oftware-defined radio is also received from the server computer.
1	12.	The computer system of claim 9 wherein the baseband unit comprises:
2		an I/O interface coupled to the I/O bus;

13. The computer system of claim 12 wherein the baseband unit further

a digital signal processor (DSP) coupled to the I/O interface; and

a second bus coupled to the DSP.

- comprises:a volatile memory coupled to the DSP; and
- a non-volatile memory coupled to the DSP.
- 1 14. The computer system of claim 12 wherein the analog front end comprises:
- analog-digital/digital-analog (AD/DA) conversion logic coupled to the
- 3 second bus;
- 4 modulation logic coupled to the AD/DA conversion logic;
- 5 a transceiver coupled to the modulation logic; and
- an antenna coupled to the transceiver.
- 1 15. The computer system of claim 14 wherein the analog front end comprises
- 2 a non-volatile memory that stores the second ID.
- 1 16. The computer system of claim 12 further comprising a second software-
- 2 defined radio including:
- 3 the baseband unit; and
- 4 a second analog front-end coupled to the baseband unit;
- 5 the second software-defined radio being certified for operation by
- authenticating a third ID received at the baseband unit with a fourth ID stored at
- 7 the second analog front end.
- 1 17. A network comprising:
- a first client computer;
- a transmission medium coupled to the first client computer; and
- a server computer, coupled to the transmission medium, that transmits
- 5 first identification (ID) data to the first client computer upon receiving a request
- 6 from the client computer to certify a first software-defined radio implemented at
- 7 the first client computer.



- 2 coupled to the transmission medium, the server computer transmits the first ID
- data to the second client computer upon receiving a request from the second
- 4 client computer to certify the first software-defined radio implemented at the
- 5 second client computer.
- 1 19. The network of claim 17 wherein the server computer transmits second ID
- 2 data to the first client computer upon receiving a request from the first client
- 3 computer to certify a second software-defined radio implemented at the first
- 4 client computer.
- 1 20. A method comprising:
- 2 receiving a request at a server computer to certify a first software-defined
- 3 radio implemented at a first client computer; and
- 4 transmitting first identification (ID) data corresponding to the first
- 5 software-defined radio to the first client computer.
- 1 21. The method of claim 21 further comprising transmitting a radio protocol
- 2 corresponding to first software-defined radio to the to the first client.
- 1 22. The method of claim 20 further comprising:
- 2 receiving a request at the server computer to certify the first software-
- 3 defined radio implemented at a second client computer; and
- 4 transmitting the first ID data to the second client computer.
- 1 23. The method of claim 20 further comprising:
- 2 receiving a request at the server computer to certify a second software-
- 3 defined radio implemented at the first client computer; and
- 4 transmitting second ID data corresponding to the second software-defined

5 radio to the second client computer.